

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Docket Number	23-66882-01
Application Number	10/701,053
Filing Date	November 3, 2003
First Named Inventor	Anna Gutowska
Art Unit	1616
Examiner Name	Dameron L. Jones

## U.S. PATENT DOCUMENTS

NOTE: If this application was filed after June 30, 2003, copies of United States patents and United States published patent applications do not have to be provided to the Patent Office. This requirement of 37 C.F.R. § 1.98(a)(2)(i) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on August 5, 2003 (1276 OG 55).

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
		5,580,929	12/1996	Tanaka et al.
		5,624,685	4/1997	Takahashi et al.
		5,643,246	7/1997	Leeb et al.
		5,830,207	11/1998	Leeb et al.
		5,843,331	12/1998	Schober et al.
		5,954,706	9/1999	Sahatjian
		5,985,384	11/1999	Shibata
		5,998,588	12/1999	Hoffman et al.
		6,030,442	2/2000	Kabra et al.
		6,030,634	2/2000	Wu et al.

## FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
		EP	730 871	9/1996	
		WIPO	89/07117	8/1989	


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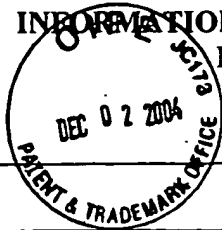
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	WIPO	10/1999	99/49908			
	WIPO	2/2000	00/07603			
<b>Examiner's Initials*</b>	<b>Cite No. (optional)</b>	<b>OTHER DOCUMENTS</b>				

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Examiner's Initials*	Cite No. (optional)	Number	Date	Name
[Signature]		4,732,930	3/1988	Tanaka et al.
		5,213,580	5/1993	Slepian et al.
		5,252,318	10/1993	Joshi et al.
		5,256,765	10/1993	Leong
		5,410,016	4/1995	Hubbell et al.
		5,514,379	5/1996	Weissleder et al.
		5,525,334	6/1996	Ito et al.
		5,575,815	11/1996	Slepian et al.
		5,589,568	12/1996	Higashijima et al.
		5,634,946	6/1997	Slepian
		5,662,609	9/1997	Slepian
		5,674,287	10/1997	Slepian et al.
		5,695,480	12/1997	Evans et al.
		5,702,361	12/1997	Evans et al.
		5,749,915	5/1998	Slepian
		5,749,922	5/1998	Slepian et al.

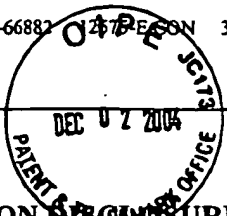
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	5,766,704	6/1998	Allen et al.
	5,843,156	12/1998	Slepian et al.
	5,858,746	1/1999	Hubbell et al.
	5,876,741	3/1999	Ron
	5,939,485	8/1999	Bromberg et al.
	5,942,209	8/1999	Leavitt et al.
	5,976,648	11/1999	Li et al.
	6,090,911	7/2000	Petka et al.
	6,113,629	9/2000	Ken
	6,290,729	9/2001	Slepian et al.
	6,352,682	3/2002	Leavitt et al.
	6,443,941	9/2002	Slepian et al.
	2002/0168319	11/2002	Filler et al.

## **FOREIGN PATENT DOCUMENTS**

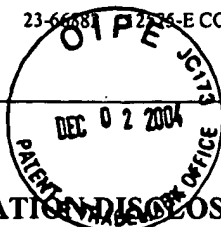
<b>Examiner's Initials*</b>	<b>Cite No. (optional)</b>	<b>Number</b>	<b>Date</b>	<b>Country</b>
		EP 0 704217	4/1996	EPC
		JP 09154573	6/1997	Japan

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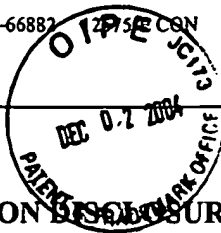
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	WO 96/03112	2/1996	WIPO
	WO 97/33628	9/1997	WIPO
	WO 98/55147	12/1998	WIPO
	WO 99/55386	11/1999	WIPO
	WO 99/56783	11/1999	WIPO
	WO 00/43355	7/2000	WIPO
	WO 00/45868	8/2000	WIPO


Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
		Gutowska et al., "Thermosensitive Polymers for Drug Delivery," <i>American Chemical Society</i> , Vol. 37, No. 2, pp. 115-116 (1996).
		Ganorkar et al., "Loading and Release Studies Using pH/Temperature-Sensitive Polymers for Oral Protein Delivery," <i>Proceed. Int'l. Symp. Control. Rel. Bioact. Mater.</i> , pp. 501-502 (1998).
		Teramoto et al., "Phase transition for aqueous solution of polyelectrolyte complex containing N-isopropylamide," <i>Japanese Journal of Polymer Science and Technology</i> Vol. 54, pp. 477-482 (1997) (Abstract).
		Chen et al., "Graft Copolymers That Exhibit Temperature-Induced Phase Transitions Over a Wide Range of pH," <i>Nature</i> , Vol. 373, pp. 49-52 (1995).
		Park, "Temperature Modulated Protein Release from pH/Temperature-Sensitive Hydrogels," <i>Biomaterials</i> , Vol. 20, pp. 517-521 (1999).
		Zhang et al., "Synthesis and Characterization of pH- and Temperature-Sensitive Poly(methacrylic acid)/Poly(N-isopropylacrylamide) Interpenetrating Polymeric Networks," <i>Macromolecules</i> , pp. A-F (1999).
		Beltran et al., "Swelling Equilibria for Weakly Ionizable, Temperature-Sensitive Hydrogels," <i>Macromolecules</i> , pp. 549-551 (1991).

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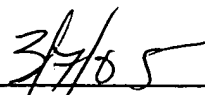
	Park et al., "Synthesis, Characterization, and Application of pH/Temperature Sensitive Hydrogels," <i>Proceed. Intern. Symp. Control. Rel. Bioact. Mater.</i> , pp. 112-113, 96 (1990).

**EXAMINER  
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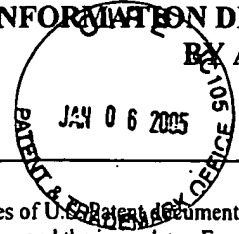
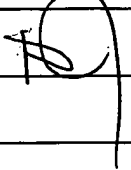
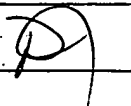



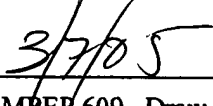
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Copies of U.S. Patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.					
Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee	
		5,752,974	5/1998	Rhee et al.	
<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
		WIPO	WO 91/19481	12/1991	
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